ASSIGNMENT TOP SHEET

Higher National Diploma in Information Technology
Sri Lanka Institute of Information Technology

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Module Title : Project & Professional Aspects	Module Code: IT1210
Lecturer in charge : Mr.Anuruddha Abeysinghe	
Assignment Title : PPA Lab - Assignment 01 (Simple Web App)	
Due Date: 18 September 2021	Date Submitted: 18 September 2021
Please Tick here if you have used a proof-reader for this assessment :	
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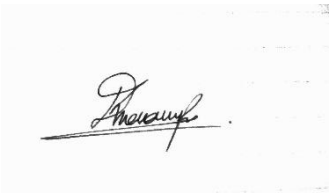
Declaration

I declare that work presented in the assignment submitted to the Sri Lanka Institute of Information Technology is a record of an original work done by myself. This assessment is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Science in Information Technology. The results embodied in this report have not been submitted to any other University or Institution for the award of any degree or diploma. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.

Name(s) and Signature(s) :	*Date:*
 D.K.Manamperi	18th of September 2021

Extension Deadline

Lecturer in charge agrees that the assignment may be submitted ……. days after the deadline and should be marked without penalty.

Lecturer in charge confirmation: ……..

Introduction and Description of the Project

This is a report for PPA lab assignment 01 that will fulfill the functionality of the simple dynamic single-page web application according to our scenario. As I'm under Scenario No.1 for the topic, "Pharmacy Lanka (PVT) Limited" has to make a simple web application that supports add item/view list/update items, and delete items. You need to facilitate the basic needs (CRUDs) for the medicines using a form. we free to select any attributes and processes. By evaluating the simple web app using HTML, JavaScript, and JSP languages and run the web app on Tomcat server v9.0 by developing on Eclipse IDE.

Content

- About the web app
- Functionalities and flow
- Used technologies
- Languages and reasons.
- Testing and Results with CRUD operations
- Guidelines to test your app

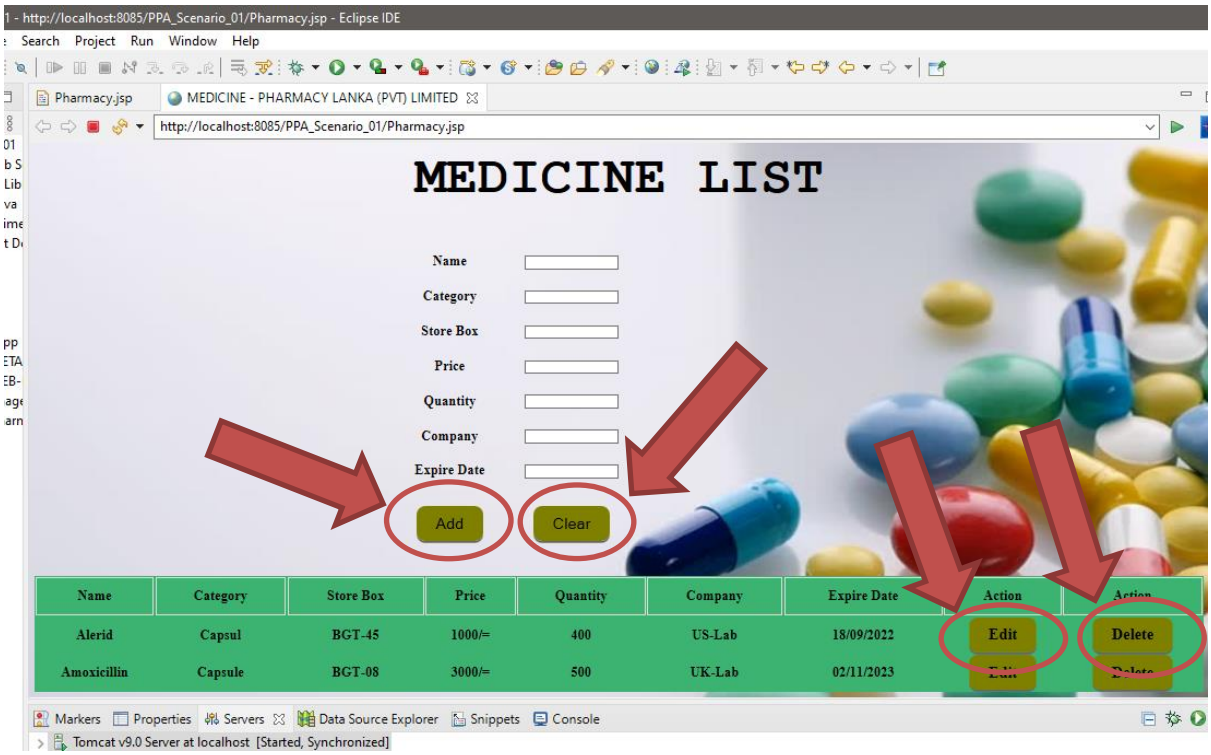
1. About the web app

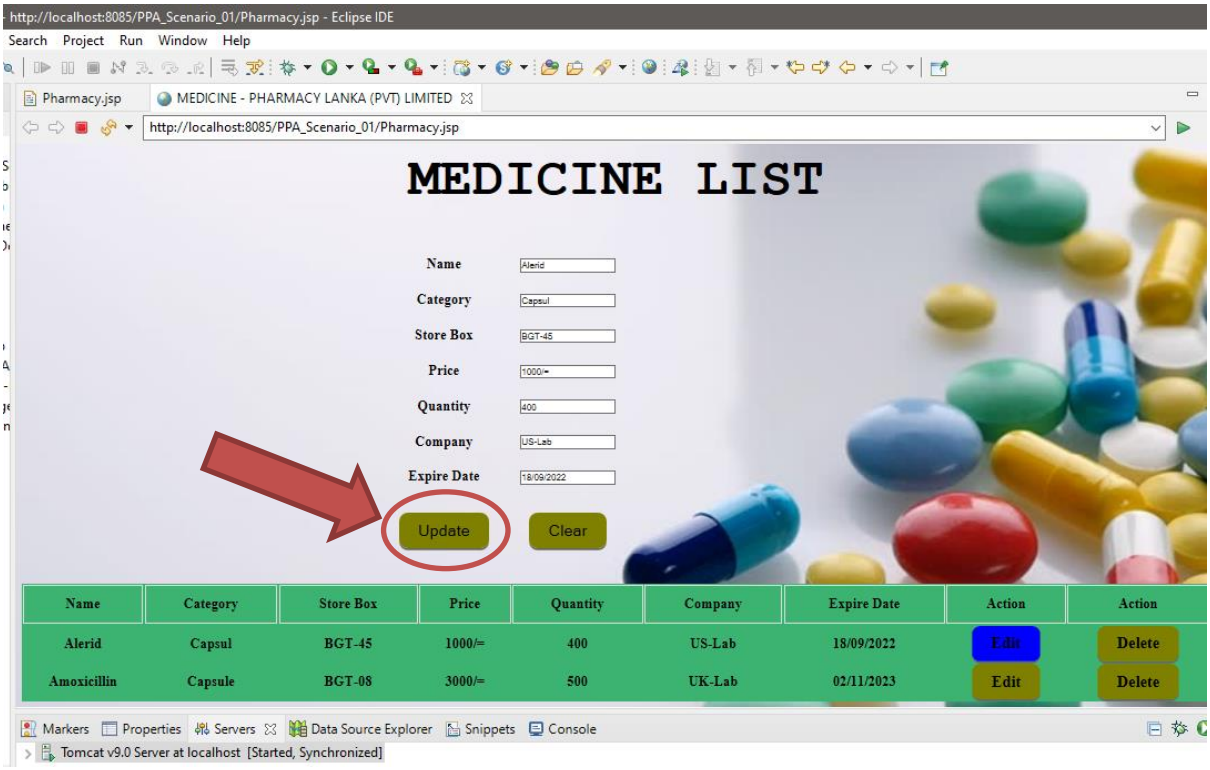
It is s single page web application. This is scenario 1 on the topic of Pharmacy Lanka (PVD) Limited. At First, we get the Tomcat Server installed on our PC and start the server by searching it on the start bar go to servicers then after we right Click on the Apache TomCat 9.0 Tomcat9 (version) and click Start. After that, installed Eclipse IDE, open a new file, and choose Dynamic Web Project then created a project Call PPA_Scenario_01 and Pharmacy.jsp file. Created a Simple Coding using HTML and JavaScript languages to evaluate the simple Web App on Pharmacy.jsp file and run the server on Tomcat.

2. Functionalities and Flow

- **Background/heading** – Black Color Theory.
- **Add Button** – When you add values to the text fields in the table and Press ‘Add’ it adds all the values in order of the values you entered.
- **Update Button** – When values are added into the table. Then press ‘Update’
- **Clear Button** – When you enter the value on the text area. Then press ‘Clear’ its clear data.
- **Edit Button** – When values are added into the table. if you want edit that value, you can press ‘Edit Button’.
- **Delete Button** - When values are added into the table. Then press ‘Delete’ it delete data.

Functionalities and design of the Web App

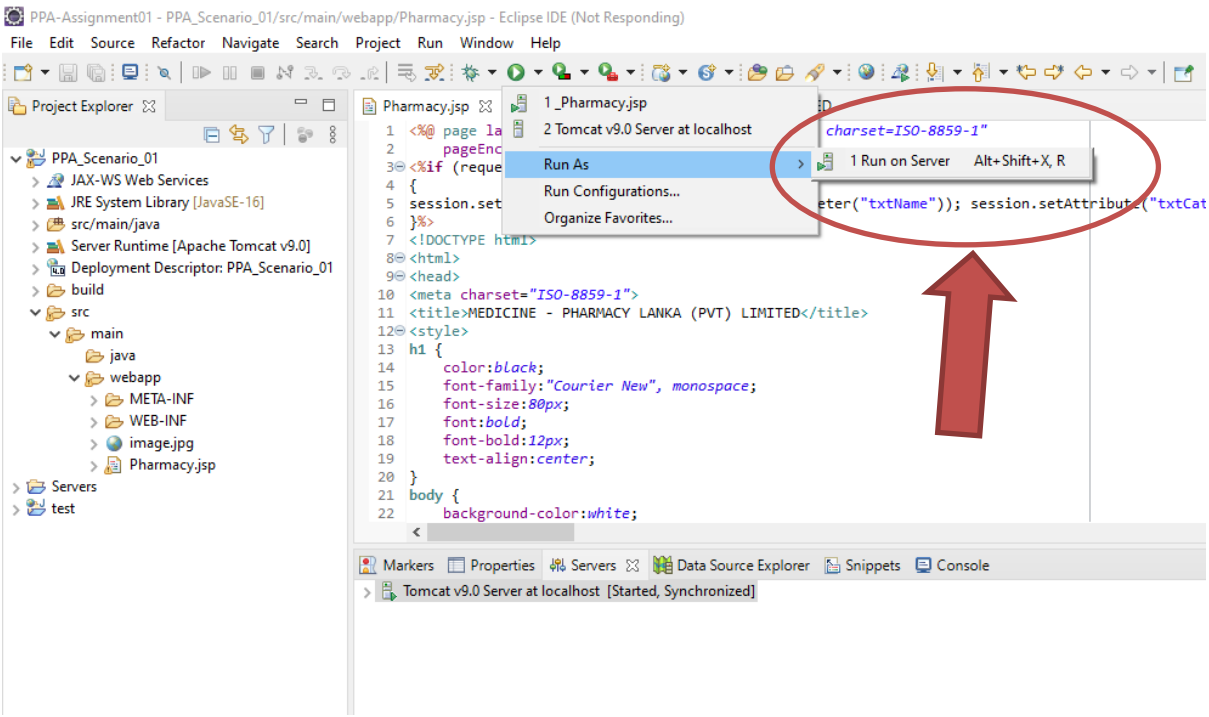




3. Used Technologies

The Main server Technology on the web app is Tomcat server v9.0, then coding from HTML, CSS, JavaScript and jQuery languages which runs the Functions and show the web app meaningfully.

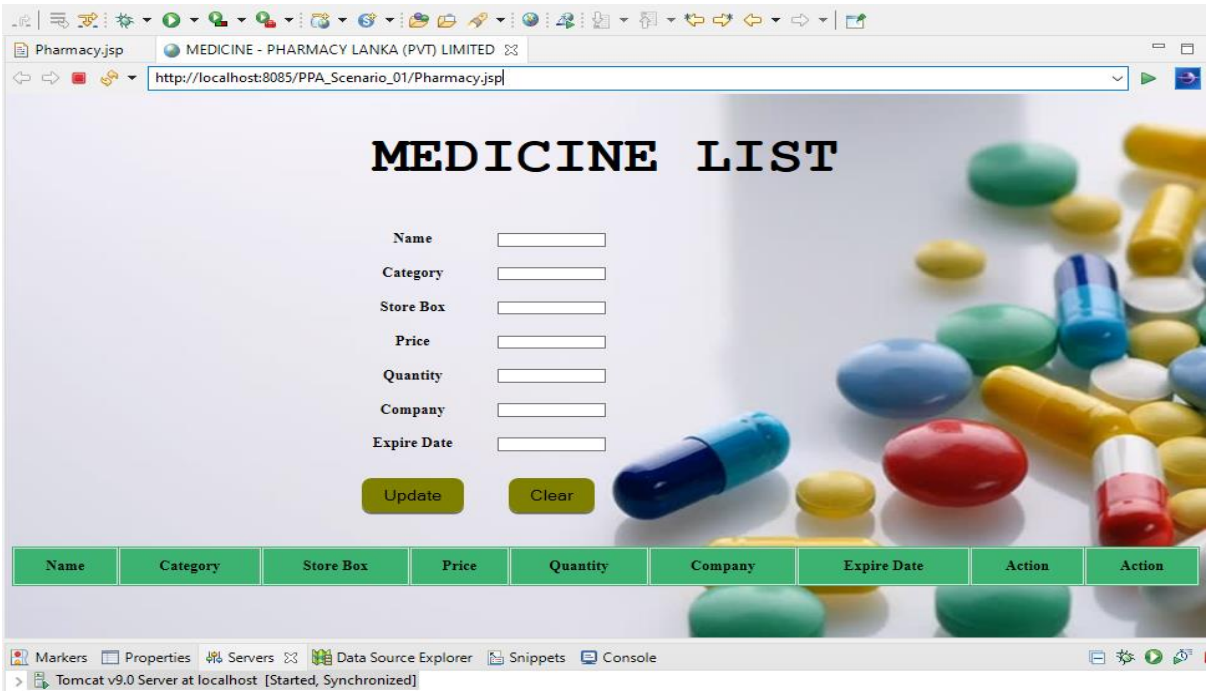
- Technology – Tomcat server v9.0 (Display the web app by running the server)

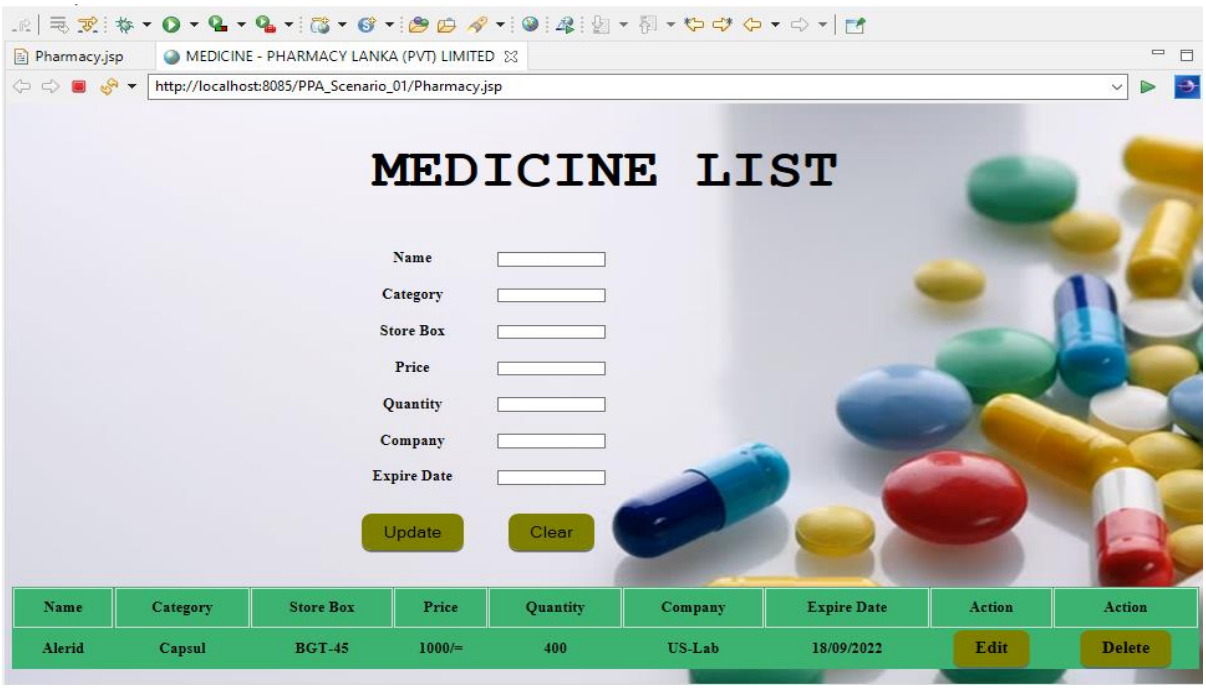


3. Language and Reasons

The main language is HTML, CSS coded to display the web app, jsp used to link the functions and java script, jQuery to get Alerts from the functions.

- ❖ HTML/CSS - Background image, heading size/color, Display tables/color, form, text fields and Buttons/color.
- ❖ Reasons – To make the web app look meaningful with all the fields mentioned above. Simple HTML Coding

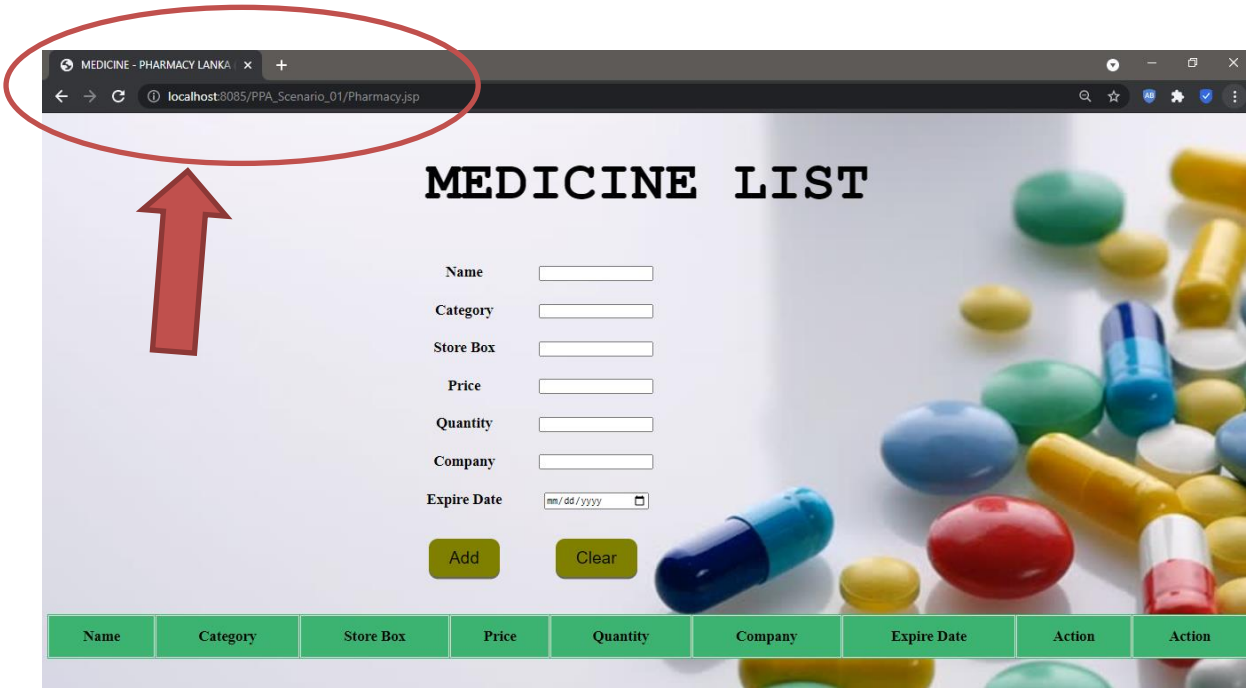




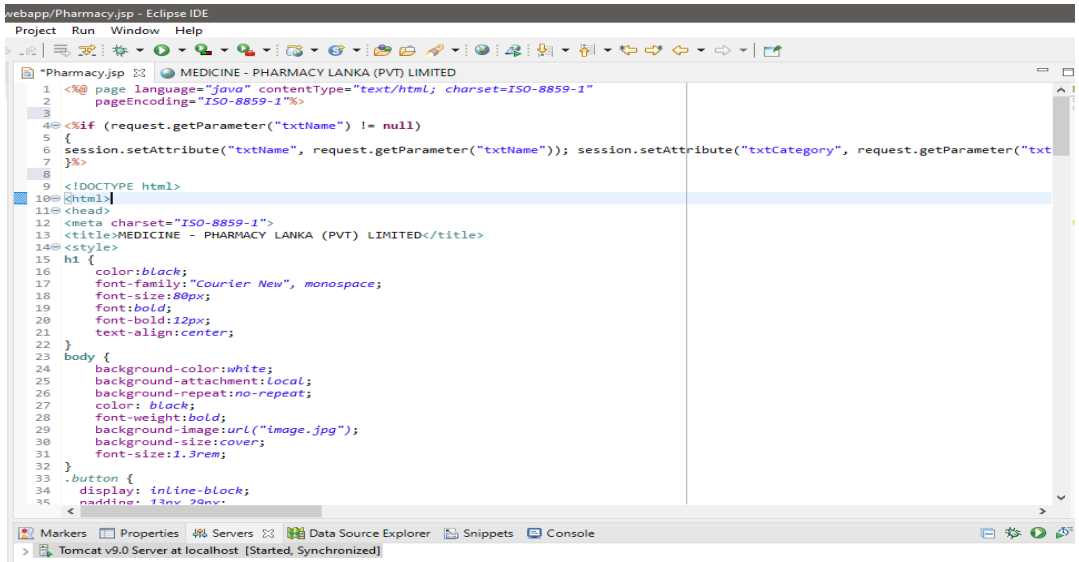
JSP - Java Server Pages often serve the same purpose as programs. Assuming that Apache Tomcat is installed in C:\apache-tomcat-9.0 and your environment is setup as per environment setup tutorial.

Reasons – JSP allows embedding Dynamic Elements in HTML Pages itself instead of having separate CGI files.

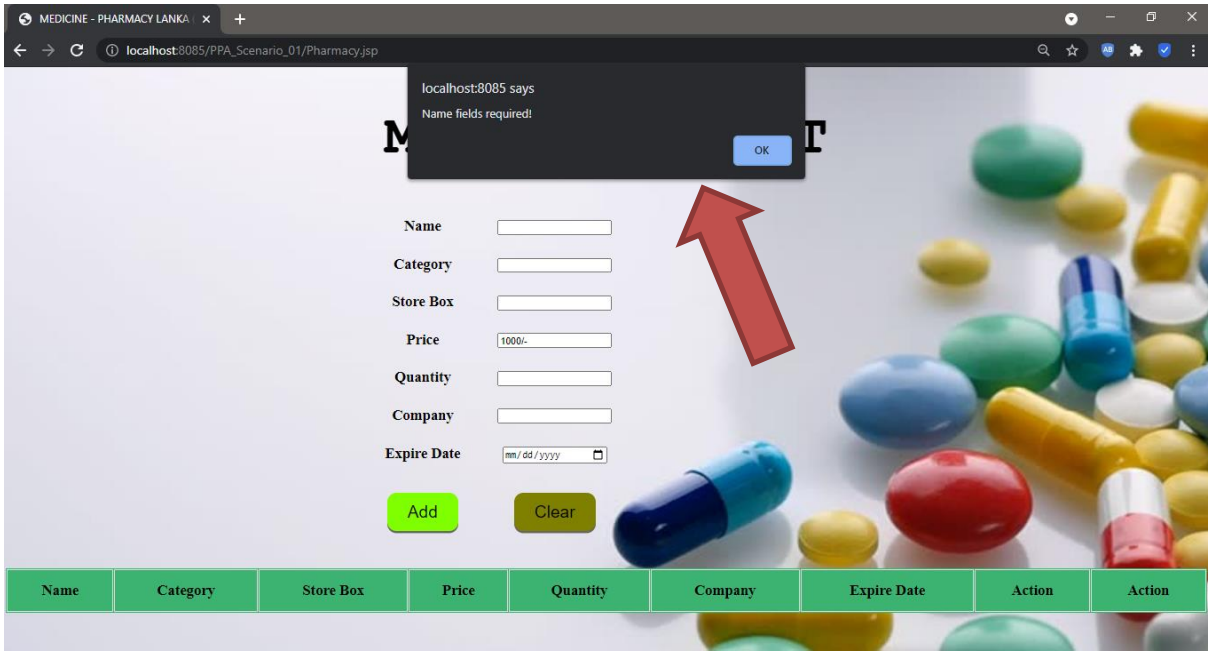
Let us keep the above code in JSP file **Pharmacy.jsp** and put this file in **C:\apache-tomcat9.0\webapps\ROOT** directory. Browse through the same using URL **http://localhost:8085/PPA_Scenario_01/Pharmacy.jsp**. The above code will generate the following result.



Sample JSP



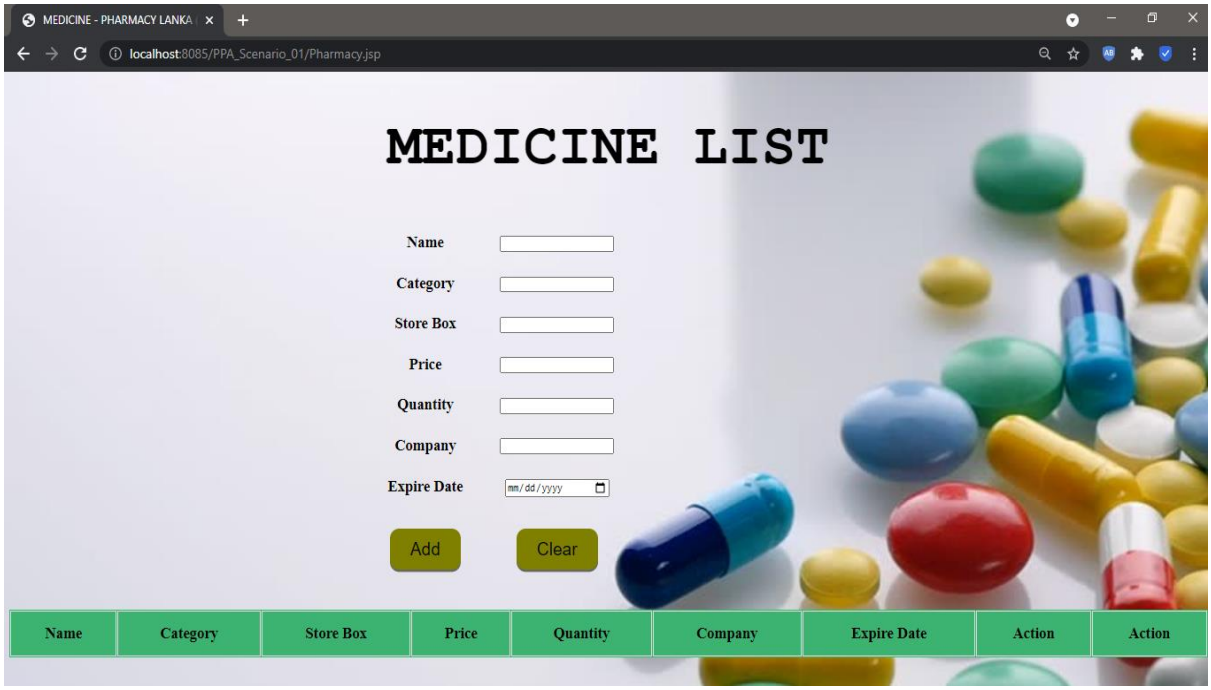
Reasons -: JavaScript- This is used to get the alerts by pressing the buttons.



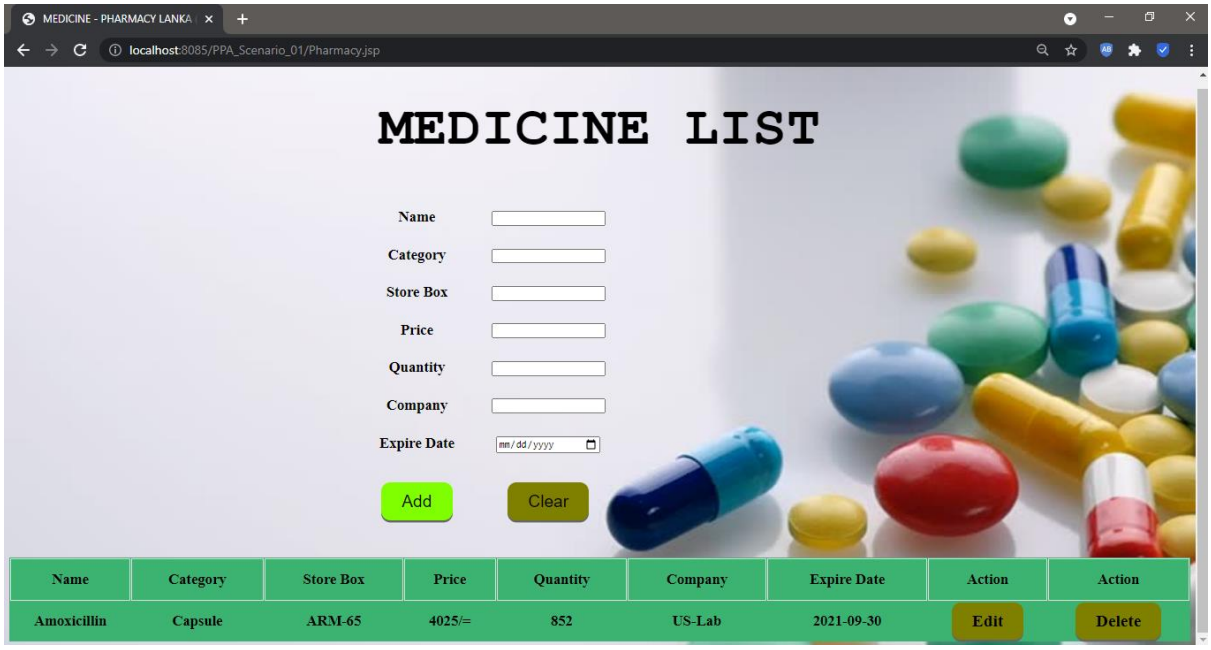
4. Testing and Results with CRUD Operations

Add Button – When you enter the values into the text field and press 'Add' All Values display on the table.

1. Empty Text field

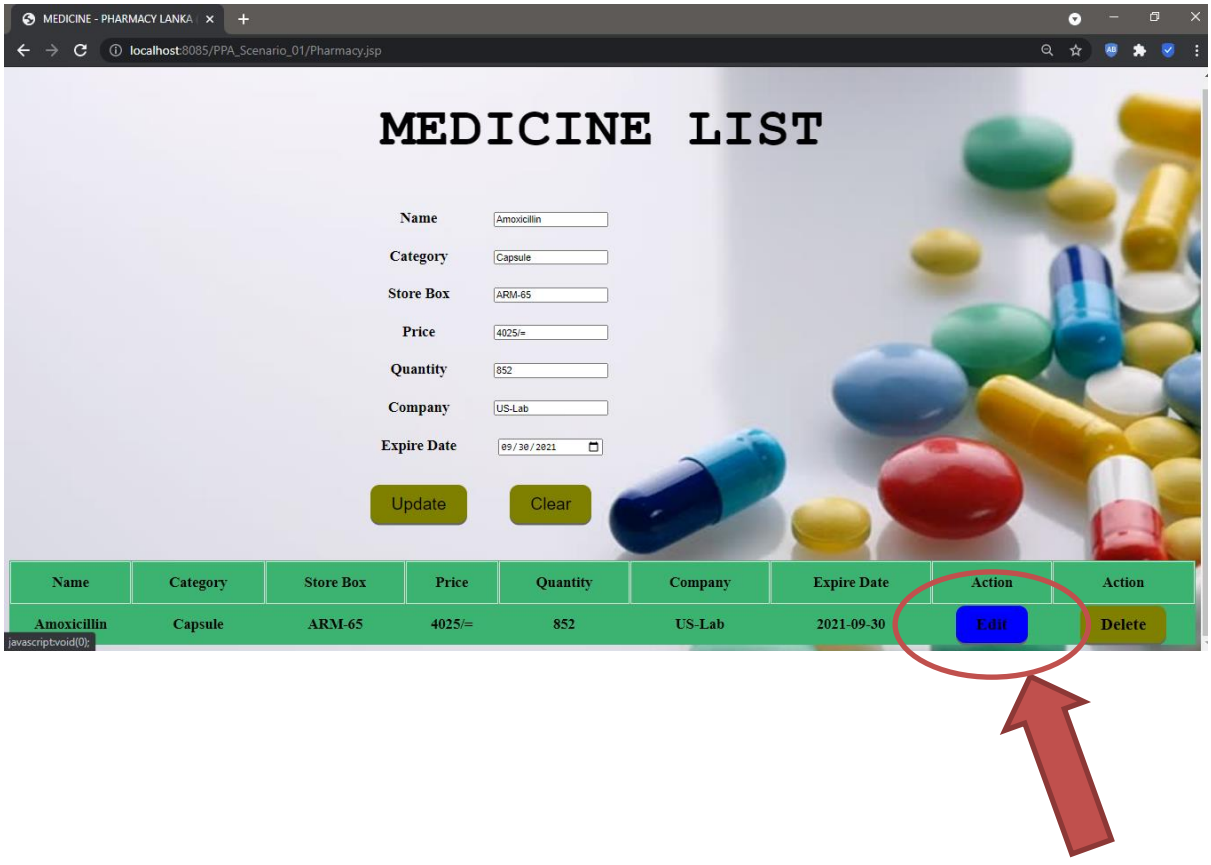


2. Enter Values in Text File

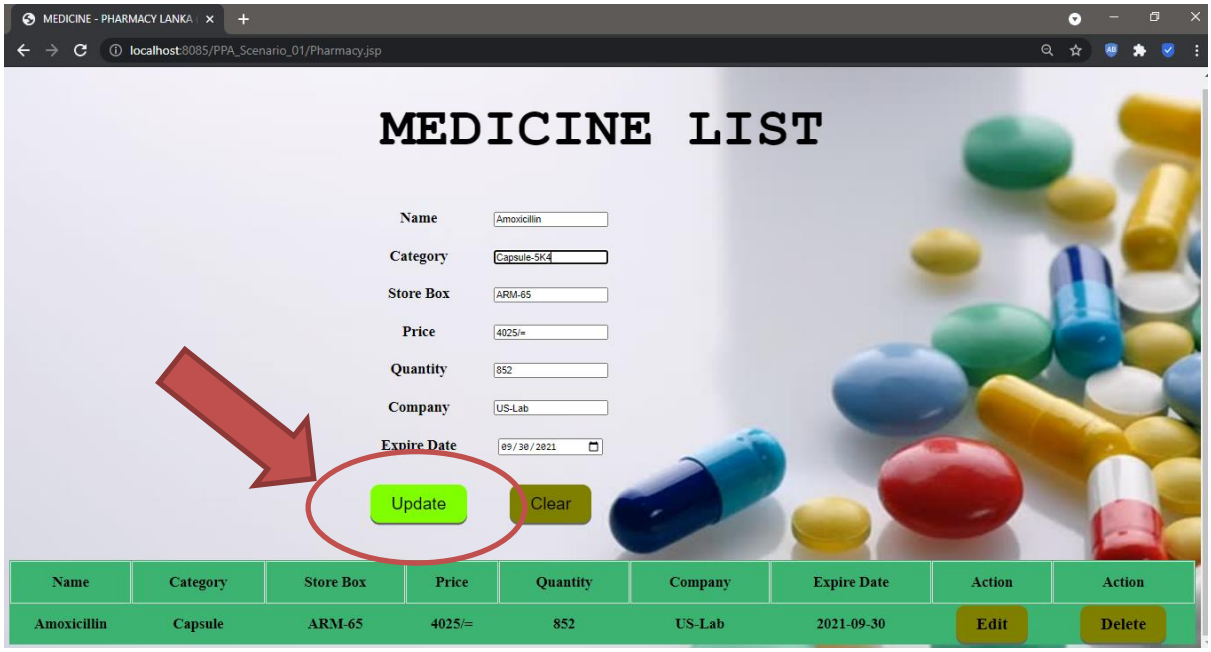


3. Press 'Add' Button & shows values, Edit/Delete Buttons

4. Edit Button - – This is to edit the values

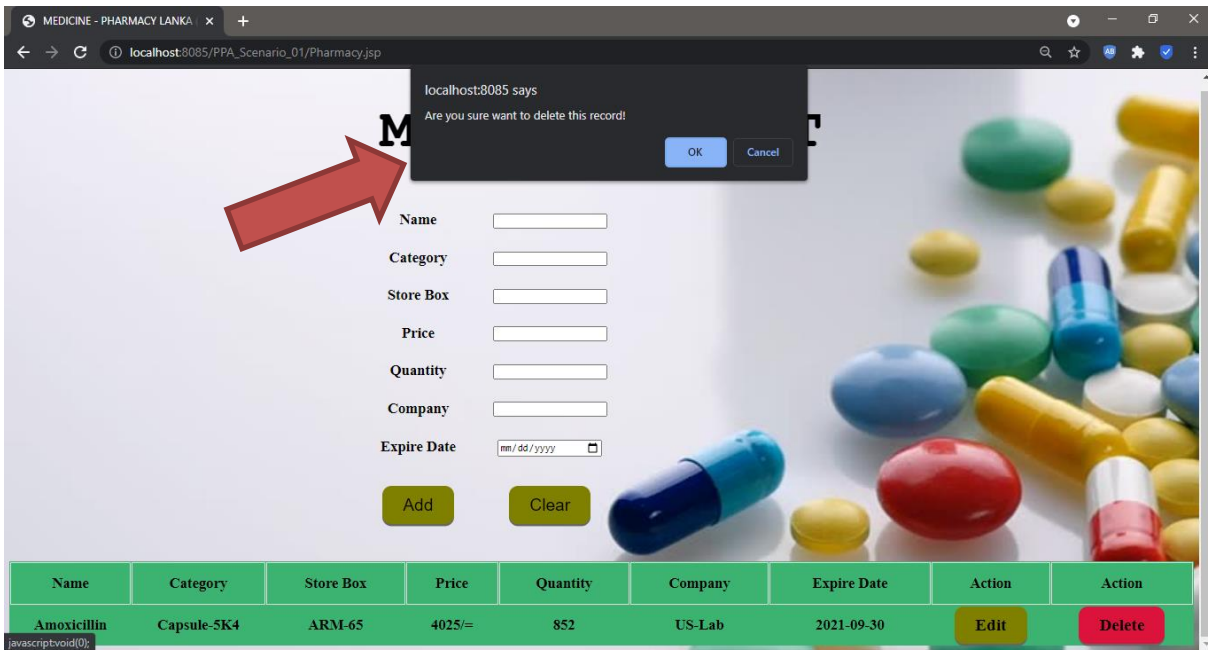


5. Update Button – This is to update the edit values

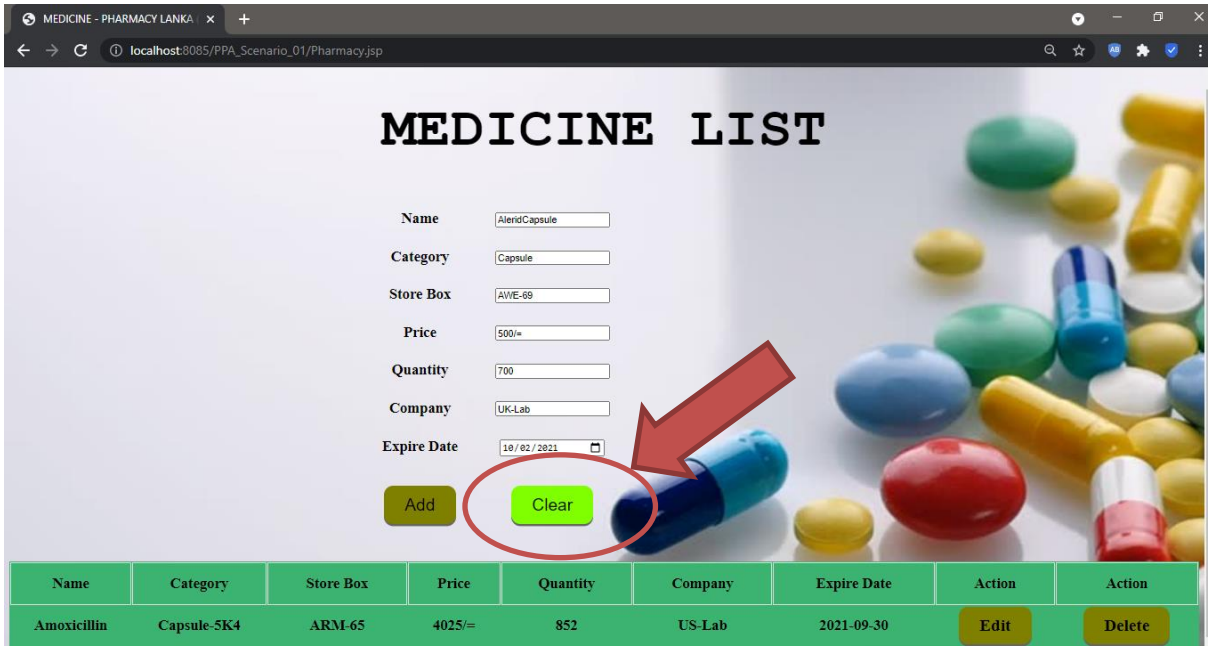


6. Delete Button - This is to delete all the values and get an Alert `Are you sure want to delete this record!`

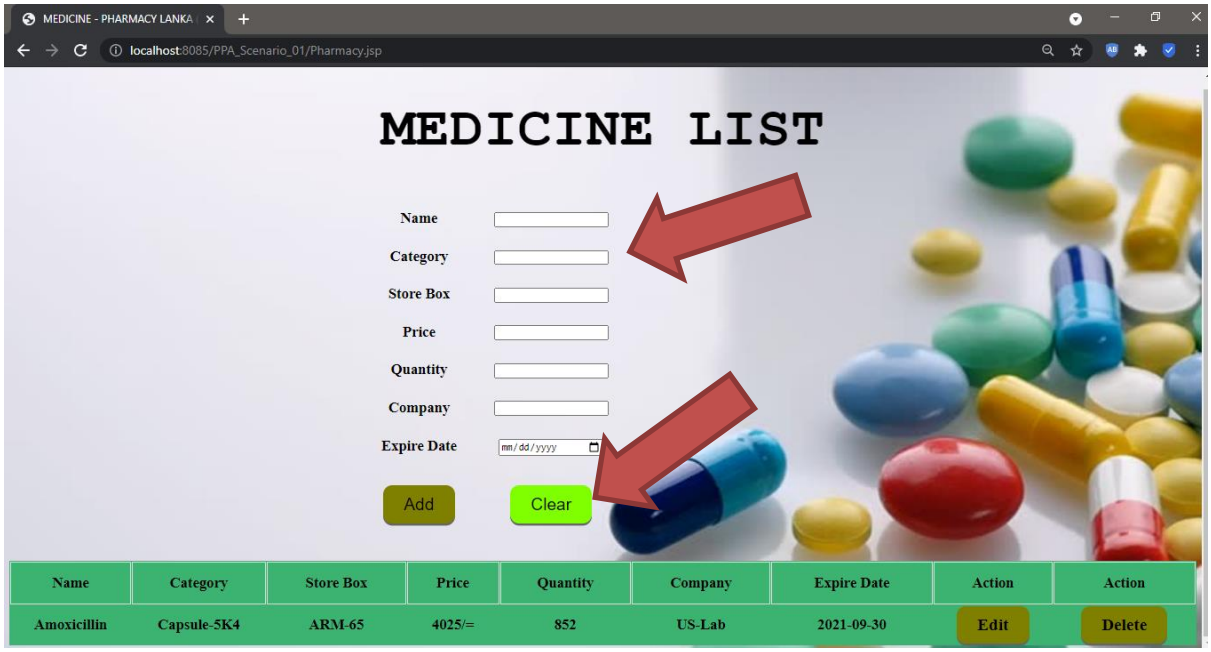
Delete Alert



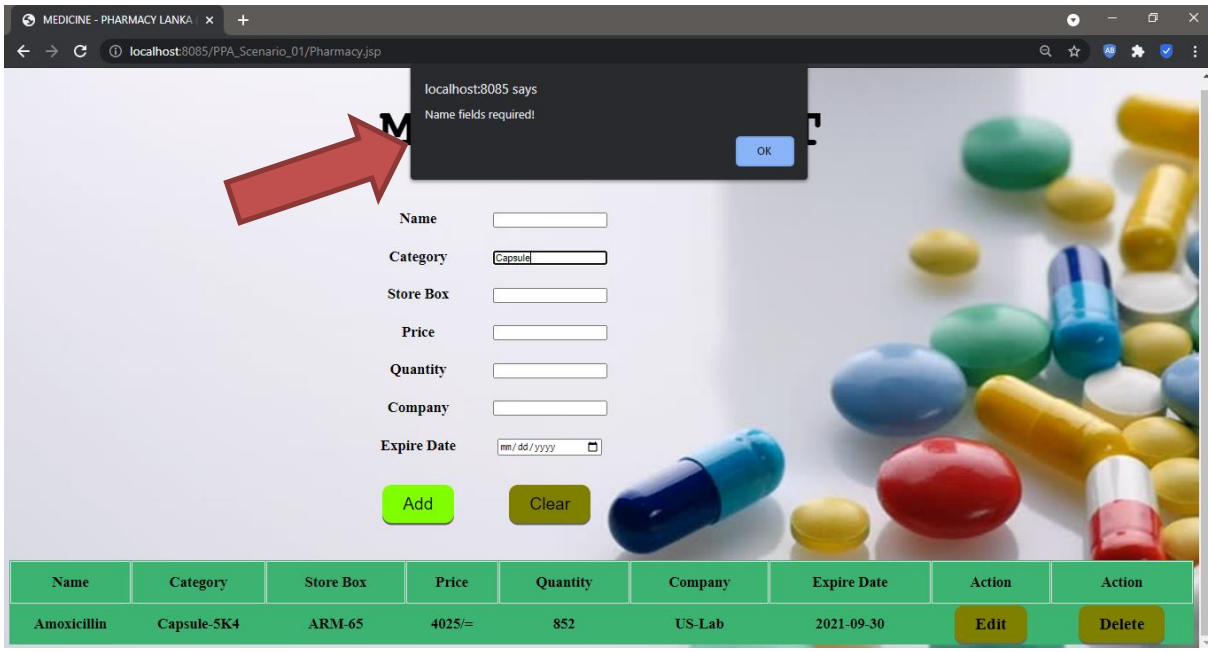
7. Clear Button – This is to clear all the add values



It has Cleared all values

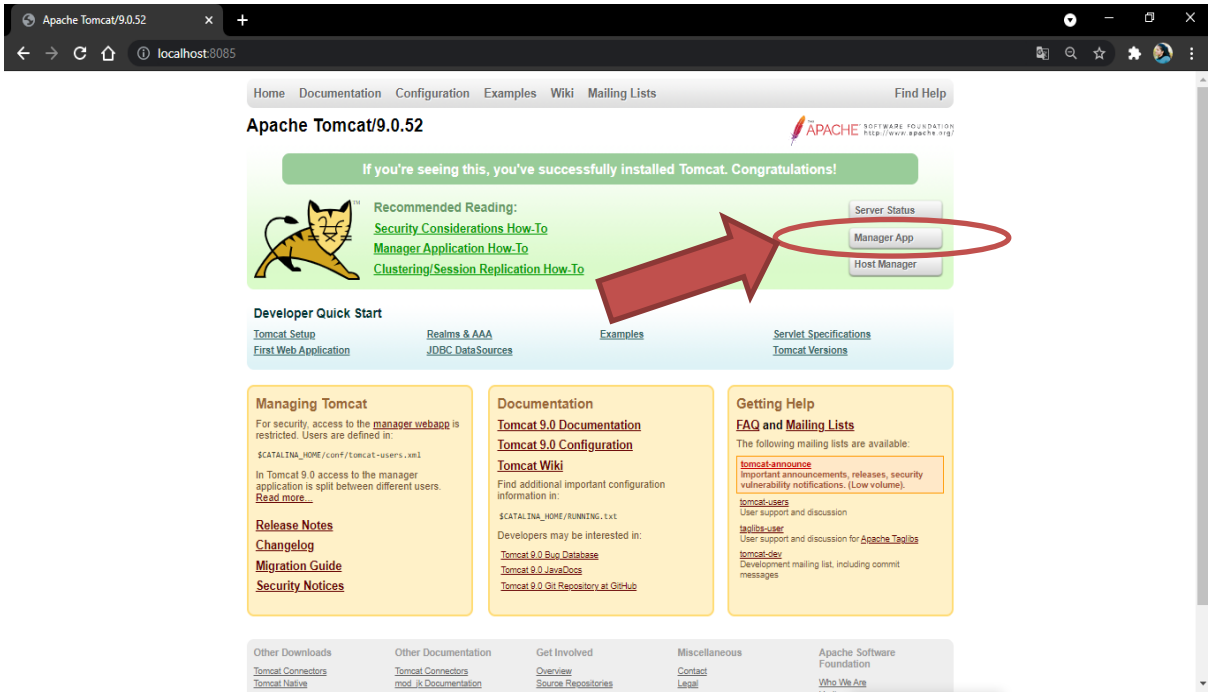


8. Alert - Name fields required!

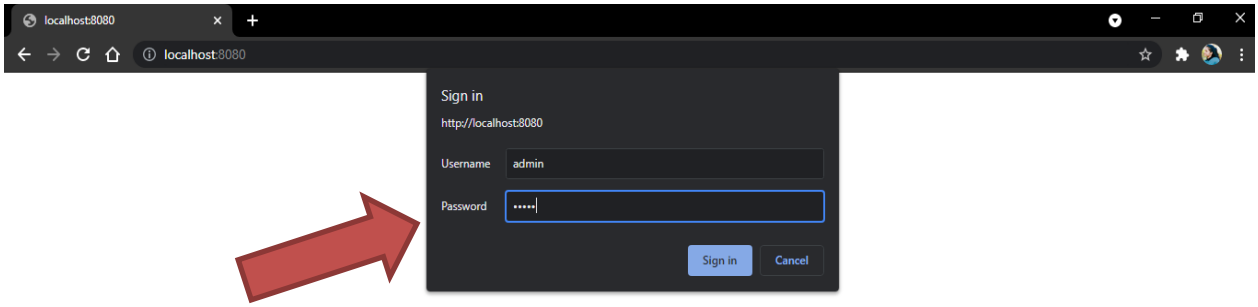


Tested with Tomcat server localhost

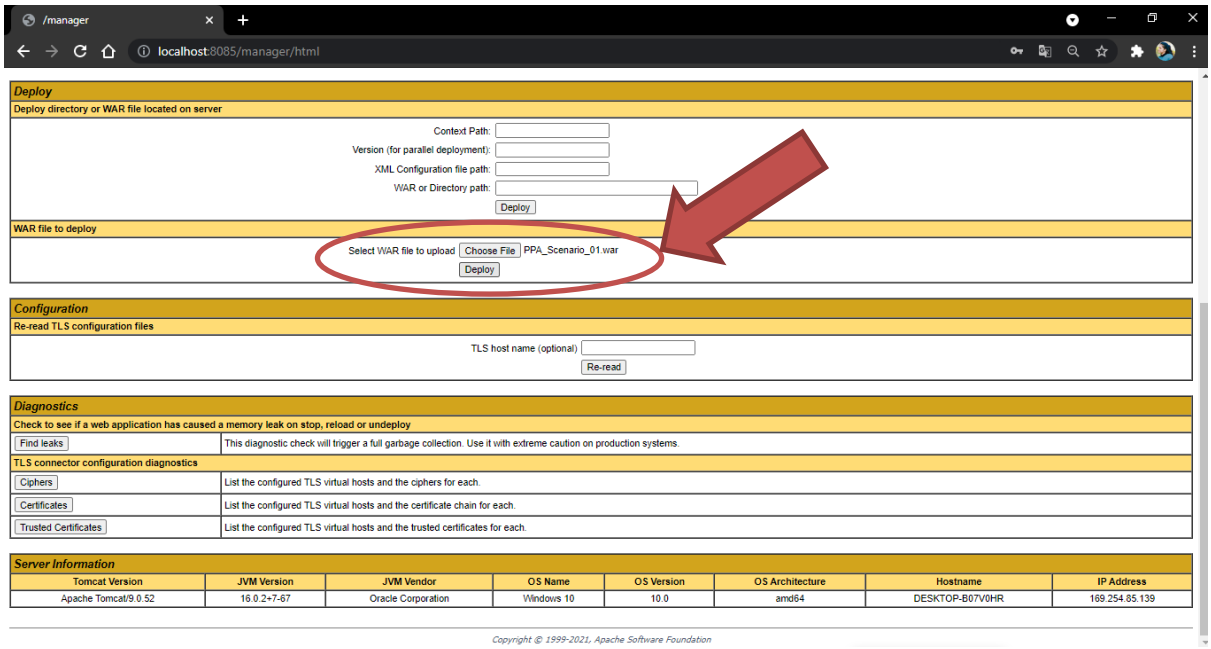
Click Manager App



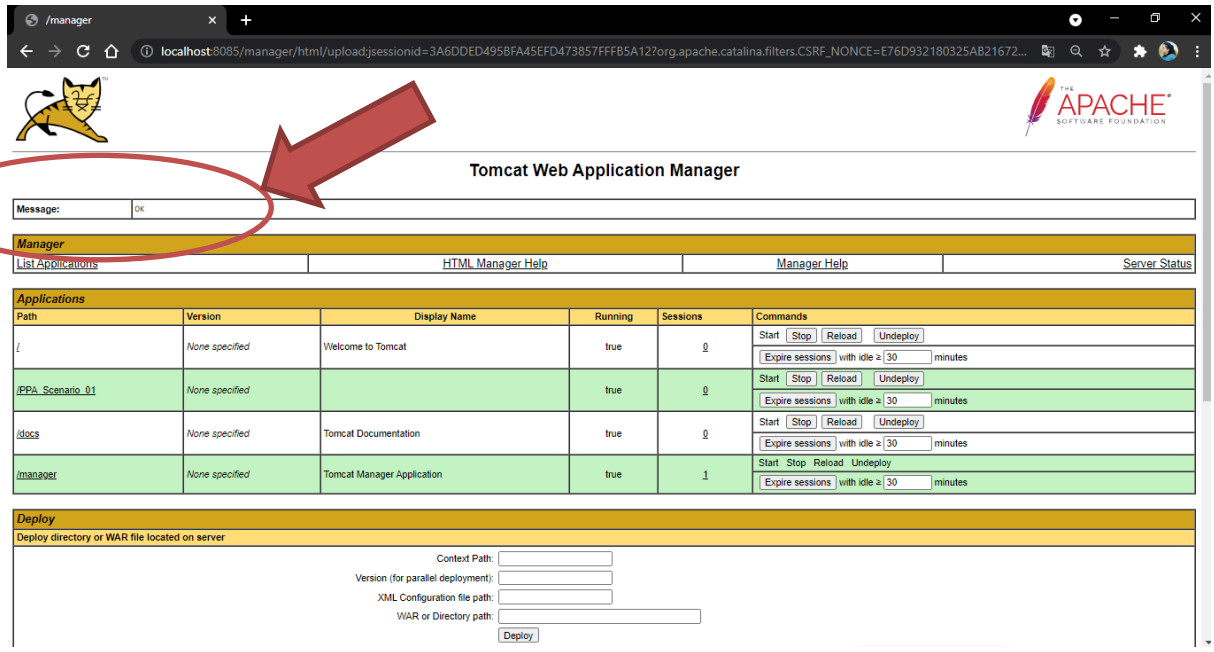
log in to the server



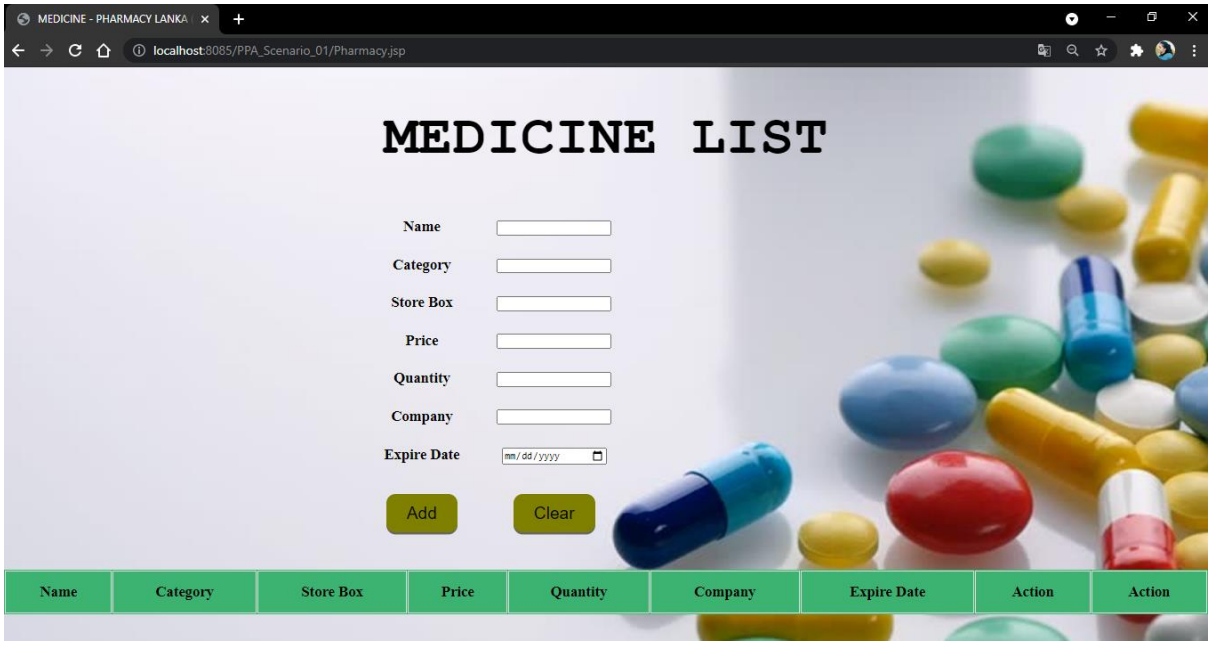
click choose file button from WAR file to deploy section and select your WAR file. Then click Deploy



I got the OK message



After that run my web app on the browser. Open the Web App Successfully.



5. Guidelines to test your app

Open with the file PPA_Scenario_01.war and view the Web App and use all the functionalities otherwise you can open the project file from eclipse IDE and run the web app on my tomcat server and copy the link from the run project. After copying, paste it into the browser with the localhost/(Project Name).

http://localhost:8085/PPA_Scenario_01/Pharmacy.jsp

THANK YOU!